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OIPE

RAW SEQUENCE LISTING DATE: 11/27/2001 PATENT APPLICATION: US/09/825,293 TIME: 14:04:25

Input Set : A:\280108ma.app

Output Set: N:\CRF3\11212001\1825293.raw



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3 <110> APPLICANT: FARWICK, MIKE
         HUTHMACHER, KLAUS
 5
         PFEFFERLE, WALTER
 7 <120> TITLE OF INVENTION: NEW NUCLEOTIDE SEQUENCES WHICH CODE FOR THE MIKE17 GENE
 9 <130> FILE REFERENCE: 21123/280108/MAS
11 <140> CURRENT APPLICATION NUMBER: 09/825,293
12 <141> CURRENT FILING DATE: 2001-04-04
14 <150> PRIOR APPLICATION NUMBER: DE 100 47 867.0
15 <151> PRIOR FILING DATE: 2000-09-27
17 <160> NUMBER OF SEQ ID NOS: 4
19 <170> SOFTWARE: PatentIn Ver. 2.1
21 <210> SEQ ID NO: 1
22 <211> LENGTH: 1890
23 <212> TYPE: DNA
24 <213> ORGANISM: Corynebacterium glutamicum
26 <220> FEATURE:
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28 <222> LOCATION: (252)..(1673)
29 <223> OTHER INFORMATION: mikE17-Gen
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40 atagttgcgc c atg gga aag aca tat gtg ggg tcc agg ctg cgc caa ctg
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                Met Gly Lys Thr Tyr Val Gly Ser Arg Leu Arg Gln Leu
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44 cgc cgc gaa aga gac ctg agc cag gca tcc tta gca gca acc ctt ggc
                                                                      338
45 Arg Arg Glu Arg Asp Leu Ser Gln Ala Ser Leu Ala Ala Thr Leu Gly
48 tta tct gca agt tat gta aat cag att gag cac gac gta cgc ccg ctc
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49 Leu Ser Ala Ser Tyr Val Asn Gln Ile Glu His Asp Val Arg Pro Leu
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52 acc gta ccg gtg tta ttg cgc atc acc gag gcg ttc ggc gta gac gca
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53 Thr Val Pro Val Leu Leu Arg Ile Thr Glu Ala Phe Gly Val Asp Ala
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56 acg ttt ttc tcc cgc gac gat gac tcc cgc ctg ctc gcc gag gtc caa
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57 Thr Phe Phe Ser Arg Asp Asp Ser Arg Leu Leu Ala Glu Val Gln
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60 gac gtc atg ctg gac cgg gag atc aat cct gcg aac gtg gag ctg/caa
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61 Asp Val Met Leu Asp Arg Glu Ile Asn Pro Ala Asn Val Glu Leu Gln
64 gag ctt tcg gag atg gtg tac aac cac ccc caa cta gcg cgc gcg atg
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65 Glu Leu Ser Glu Met Val Tyr Asn His Pro Gln Leu Ala Arg Ala Met
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68 gtg gaa atg cac cag cgt tac cga aac gtg cgc gat aag ttc tcc atc
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69 Val Glu Met His Gln Arg Tyr Arg Asn Val Arg Asp Lys Phe Ser Ile
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74			-		130					135		_			140		
76	gag	gcc	gtg	agc	atg	ccq	cac	gaa	gag	gtc	cqc	gat	ttc	att	tac	gcc	722
				Ser													
78				145					150					155	•		
80	cqc	caa	aac	tac	ttc	gat	qcc	ctt	gac	cac	cac	qcc	gaa	qcc	atc	qcc	770
	_			Tyr		_	-		-	_	_	_	-	_		-	
82	,		160	-1-				165		5	5		170				
	aca	caa		ggc	t.aa	caσ	cca		σat.	ticc	cac	acc		σaa	σat.	t.ca	818
				Gly													
86		175		V-1			180	-1-			9	185					
	atc		cac	cgc	cta	caa		gat	cac	αat	atc		atc	acc	tee	tcc	866
		-	_	Arg	_		_	_		-	_						000
	190			**** 9	204	195					200		110		001	205	
		πaπ	αaa	tcc	aac		cta	cac	cac	ttc		ccc	nan	aca	cat		914
				Ser													711
94	L 75	Oiu	Gru	DCI	210	1111	БСС	1115	1113	215	пор	110	GIG	1111	220	ьси	
	cta	aca	atc	cac		cac	ctc	220	CCC		C22	cac	acc	ttc		ato	962
				His													702
98	LCu	1111	110	225	nzu	nrg	БСС	71511	230	Oly	OIII	ni 9	niu	235	n y	MCC	
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102		. 1111	240		GIY	1 7 1	пес	245		L ASI	. ASE	, пес	250		. 613	, 116	
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118		GII	пес	305	_	Val	GLY	1 7 1	310		1111		nrs	315		, ser	
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122		пес	320		FIC	, voii	пеи	325	_	110	· FIC	FIIC	330		Val	LALY	
		mar.				220	ato			COC	(1)	+00			aac	ttc	1298
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126		335		пта	. Эту	บอแ	340		בעם.	, ATA	GT1.	345		1111	91)	FILE	
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134		F 116	. 1117	. noli		_	GII	val	. пеп	_		. PIIE	. nid	GTII			
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DATE: 11/27/2001 TIME: 14:04:25 RAW SEQUENCE LISTING PATENT APPLICATION: US/09/825,293

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															ggc Gly		1490
141	ніа	ALG	400	СТУ	GIU	vaı	ASP	405	Met	Pile	ніа	TTE	410	ьеu	СТУ	Cys	
	maa	aca		cac	acc	a a c	cac		ata	tác	tac	cac		tta	aac	ata	1538
															Asn		1330
146	Giu	415	пту	1113	niu	пэр	420	1111	7 U.L.	1 7 1	JCI	425	O.L.y	riic	กรแ	Deu	
	cad		ctc	tee	acc	acc		CCC	atc	aaa	tcc		tac	cga	gtg	tac	1586
															Val		1300
	430					435				01	440	011	0,10	••••	,	445	
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174 175 176 178 179 181 182 184 185 187 188 190 191 193 194 196	<pre><400 Met 1 Arg Ser Val Ser 65 Leu Glu His</pre>	O> SI Gly Asp Tyr Leu 50 Arg Asp Met Gln	EQUENT Lys Leu Val 35 Leu Asp Arg Val Arg 115	NCE: Thr Ser 20 Asn Arg Asp Glu Tyr 100 Tyr	Tyr 5 Gln Gln Ile Asp Ile 85 Asn Arg	Val Ala Ile Thr Ser 70 Asn His Asn	Gly Ser Glu Glu 55 Arg Pro Pro Val	Ser Leu His 40 Ala Leu Ala Gln Arg 120	Arg Ala 25 Asp Phe Leu Asn Leu 105 Asp	Leu 10 Ala Val Gly Ala Val 90 Ala	Arg Thr Arg Val Glu 75 Glu Arg	Leu Pro Asp 60 Val Leu Ala Ser	Gly Leu 45 Ala Gln Gln Met Ile 125	Leu 30 Thr Thr Asp Glu Val 110 Ala	15 Ser Val Phe Val Leu 95 Glu Val	Ala Pro Phe Met 80 Ser Met Asp	
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174 175 176 178 179 181 182 184 185 187 188 190 191 193 194 196 197 199 200	<pre><400 Met 1 Arg Ser Val Ser 65 Leu Glu His Asn</pre>	O> SI Gly Asp Tyr Leu 50 Arg Asp Met Gln Arg	EQUENT Lys Leu Val 35 Leu Asp Arg Val Arg 115 Thr	NCE: Thr Ser 20 Asn Arg Asp Glu Tyr 100 Tyr	Tyr 5 Gln Gln Ile Asp Ile 85 Asn Arg	Val Ala Ile Thr Ser 70 Asn His Asn Pro	Gly Ser Glu Glu 55 Arg Pro Pro Val Glu 135	Ser Leu His 40 Ala Leu Ala Gln Arg 120 Glu	Arg Ala 25 Asp Phe Leu Asn Leu 105 Asp	Leu 10 Ala Val Gly Ala Val 90 Ala Lys	Arg Thr Arg Val Glu 75 Glu Arg Phe	Leu Pro Asp 60 Val Leu Ala Ser Ile 140	Gly Leu 45 Ala Gln Gln Met Ile 125 Ala	Leu 30 Thr Thr Asp Glu Val 110 Ala Glu	15 Ser Val Phe Val Leu 95 Glu Val	Ala Pro Phe Met 80 Ser Met Asp	
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174 175 176 178 179 181 182 184 185 187 188 190 191 193 194 196 197 199 200 202 203	<pre><400 Met 1 Arg Ser Val Ser 65 Leu Glu His Asn Ser 145</pre>	O> SI Gly Asp Tyr Leu 50 Arg Asp Met Gln Arg 130 Met	EQUENT Lys Leu Val 35 Leu Asp Arg Val Arg 115 Thr	NCE: Thr Ser 20 Asn Arg Asp Glu Tyr 100 Tyr Asn His	Tyr 5 Gln Gln Ile Asp Ile 85 Asn Arg Thr	Val Ala Ile Thr Ser 70 Asn His Asn Pro Glu 150	Gly Ser Glu 55 Arg Pro Pro Val Glu 135 Val	Ser Leu His 40 Ala Leu Ala Gln Arg 120 Glu Arg	Arg Ala 25 Asp Phe Leu Asn Leu 105 Asp Arg	Leu 10 Ala Val Gly Ala Val 90 Ala Lys Arg Phe	Arg Thr Arg Val Glu 75 Glu Arg Phe Pro Ile 155	Leu Pro Asp 60 Val Leu Ala Ser Ile 140 Tyr	Gly Leu 45 Ala Gln Gln Met 11e 125 Ala Ala	Leu 30 Thr Thr Asp Glu Val 110 Ala Glu Arg	15 Ser Val Phe Val Leu 95 Glu Val	Ala Pro Phe Met 80 Ser Met Asp Val Asn 160	

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217 His Ala Arg Leu Asn Pro Gly Gln Arg Ala Phe Arg Met Ala Thr Glu
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                                            235
220 Leu Gly Tyr Leu Glu Ala Asn Asp Leu Ile Glu Gly Ile Val Asp Asp
                    245
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                                    265
226 Ala Ser Tyr Phe Ala Ala Ala Val Met Leu Pro Tyr Lys Ile Phe His
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                                280
229 Ser Glu Ala Glu Lys Ser Gly Tyr Asp Ile Glu Tyr Leu Gly Gln Leu
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232 Phe Gly Val Gly Tyr Glu Thr Thr Ala His Arg Leu Ser Thr Leu Gln
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                                            315
235 Arg Pro Asn Leu Arg Gly Ile Pro Phe Thr Phe Val Arg Val Asp Arg
                    325
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238 Ala Gly Asn Met Ser Lys Arg Gln Ser Ala Thr Gly Phe His Phe Thr
                                    345
241 His Tyr Gly Gly Thr Cys Pro Leu Trp Asn Val Phe Glu Thr Phe Thr
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244 Asn Pro Gly Gln Val Leu Arg Gln Phe Ala Gln Met Pro Asp Gly Arg
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                                                380
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19

VERIFICATION SUMMARY

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